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Type of Material: Text (Book, Microform, Electronic, etc.)

Brief Description: Chirality in industry / edited by A.N. Collins, G.N. Sheldrake, and J. Crosby.
 Chichester [England] ; New York : Wiley, c1992-<c1997 >
 v. <1-2 > : ill. ; 24 cm.

CALL NUMBER: QP517.C57 C47 1992

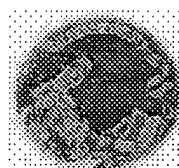
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SEA HYDANTO?(S)RACEMAS?

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L1 QUE HYDANTO?(S) RACEMAS?

FILE 'GENBANK, DGENE, CAPLUS, BIOTECHDS, USPATFULL, SCISEARCH, WPIDS, BIOSIS' ENTERED AT 13:31:52 ON 08 MAR 2005

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NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS	20	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	21	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	23	MAR 02	GBFULL: New full-text patent database on STN
NEWS	24	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
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=> s hydanto?(s)racemas?

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L1 QUE HYDANTO?(S) RACEMAS?

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=> s hydanto?(s)racemas?

L2 396 HYDANTO?(S) RACEMAS?

=> s 12 and aurescen?

L3

67 L2 AND AURESCEN?

=> dup rem l3

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L4 47 DUP REM L3 (20 DUPLICATES REMOVED)

=> focus l4

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ANSWERS FROM NON FOCUS FILES PUT AT END OF ANSWER SET.

L5 47 FOCUS L4 1-

=> d ti l5 1-47

L5 ANSWER 1 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI Cloning of **hydantoin-racemase** from *Arthrobacter*
aurescens and use of the recombinant enzyme for production of
amino carboxylic acids

L5 ANSWER 2 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI **Hydantoin racemase** from *Arthrobacter aurescens*
DSM 3747: heterologous expression, purification and characterization

L5 ANSWER 3 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI Procedure for production of enantiomer-enriched tert-leucine using
hydantoin racemase from *Arthrobacter aurescens*

L5 ANSWER 4 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI Whole cell catalyst comprising a **hydantoinase**, a
racemase and a carbamoylase for the production of amino acids

L5 ANSWER 5 OF 47 USPATFULL on STN

TI Whole cell catalysts

L5 ANSWER 6 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI Characterization of serological properties of polyclonal antibodies
produced against enzymes involved in the L-selective cleavage of hydantoin
derivatives

L5 ANSWER 7 OF 47 USPATFULL on STN

TI 5-substituted **hydantoin racemase**, DNA coding for the
racemase, and processes for producing optically active amino
acids

L5 ANSWER 8 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI Enhanced stability of an L-hydantoinase mediated by its corresponding
polyclonal antibody

L5 ANSWER 9 OF 47 USPATFULL on STN

TI DNA encoding hydantoinase, DNA encoding N-carbamyl-L-amino acid
hydrolase, recombinant DNA, transformed cell, method of producing
protein, and method of producing optically active amino acid

L5 ANSWER 10 OF 47 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

TI Use of antibodies as screening tools for microorganisms with L-
hydantoinase, **hydantoin-racemase** and
N-carbamoylamino-acid-amidohydrolase activity;
ELISA test for enzyme e.g. dihydropyrimidinase useful in L-amino acid
production; *Arthrobacter aurescens* isolation (conference
paper)

L5 ANSWER 11 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

TI Organization of genes responsible for the stereospecific conversion of
hydantoins to α -amino acids in *Arthrobacter aurescens* DSM
3747

L5 ANSWER 12 OF 47 USPATFULL on STN

Ti Whole cell catalyst

L5 ANSWER 13 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 TI Novel rec-**Hydantoin-racemase** from *Arthrobacter*
aurescens DSM 3747 (hyuA) useful for producing enantiomerically
 enriched amino carboxylic acids or its derivatives on industrial scale -

L5 ANSWER 14 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Development of an *Escherichia coli* whole cell biocatalyst for the
 production of L-amino acids

L5 ANSWER 15 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 TI Novel rec-**Hydantoin-racemase** from *Arthrobacter*
aurescens DSM 3747 (hyuA) useful for producing enantiomerically
 enriched amino carboxylic acids or its derivatives on industrial scale -

L5 ANSWER 16 OF 47 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 TI Immobilization of hydantoin cleaving enzymes;
 stereospecific L-amino acid and D-amino acid preparation from D,L-
hydantoin using dihydropyrimidinase, L-N-carbamoylase,
hydantoin-racemase or D-**hydantoinase**
 (conference paper)

L5 ANSWER 17 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 TI Novel rec-**Hydantoin-racemase** from *Arthrobacter*
aurescens DSM 3747 (hyuA) useful for producing enantiomerically
 enriched amino carboxylic acids or its derivatives on industrial scale -

L5 ANSWER 18 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 TI Novel rec-**Hydantoin-racemase** from *Arthrobacter*
aurescens DSM 3747 (hyuA) useful for producing enantiomerically
 enriched amino carboxylic acids or its derivatives on industrial scale -

L5 ANSWER 19 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Detection and comparison of strains with selective L-hydantoin cleaving
 activity using polyclonal antibodies

L5 ANSWER 20 OF 47 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 TI Development of a membrane bioreactor for the continuous bioconversion of
 slightly soluble 5-arylalkylmonosubstituted hydantoins to L-amino acids;
 reactor for 5-arylalkyl monosubstituted **hydantoin** conversion
 to L-amino acid using **hydantoin-racemase**, L-
hydantoinase and N-carbamoyl-L-amino-acid-aminohydrolase
 (conference paper)

L5 ANSWER 21 OF 47 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
 STN
 TI Overexpression and characterization of **hydantoin**
racemase from *Agrobacterium tumefaciens* C58.

L5 ANSWER 22 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Process for the enzymic preparation of enantiomerically enriched D-amino
 acids

L5 ANSWER 23 OF 47 USPATFULL on STN
 TI Recombinant L-N-carbamoylase from *Arthrobacter* **aurescens** and
 method of producing L-amino acids therewith

L5 ANSWER 24 OF 47 USPATFULL on STN
 TI Process for the production of enantiomer-enriched alpha-substituted
 carboxylic acids

L5 ANSWER 25 OF 47 USPATFULL on STN
 TI Recombinant L-N-carbamoylase from *Arthrobacter* **aurescens** and
 method of producing L-amino acids therewith

L5 ANSWER 26 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 TI New whole cell catalyst for degrading **hydantoins** into amino
 acids, comprises a **hydantoinase**, a **racemase** and a

carbamoylase -

L5 ANSWER 27 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 28 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 29 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 30 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 31 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 32 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 33 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 34 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 35 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 36 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 37 OF 47 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI New whole cell catalyst for degrading **hydantoins** into amino acids, comprises a **hydantoinase**, a **racemase** and a carbamoylase -

L5 ANSWER 38 OF 47 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
TI The chemostat - an efficient method for media optimization considering growth and enzyme activity (query);
L-tryptophan production from *Arthrobacter aurescens*;
dihydropyrimidinase, L-N-carbamoylase and **hydantoin-racemase** induction (conference paper)

L5 ANSWER 39 OF 47 USPATFULL on STN
TI Hydantoinase variants with improved properties and their use for the production of amino acids

L5 ANSWER 40 OF 47 USPATFULL on STN

TI Process for the preparation of allysine acetal

L5 ANSWER 41 OF 47 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Microbial and enzymatic synthesis of optically pure D- and L-3-trimethylsilyl-L-alanine by deracemization of D,L-5-trimethylsilylmethyl-hydantoin

L5 ANSWER 42 OF 47 USPATFULL on STN

TI Arthrobacter D-carbamoylase and methods of preparing enantiomerically enriched D-amino acids

L5 ANSWER 43 OF 47 GENBANK® COPYRIGHT 2005 on STN

TITLE (TI): **Hydantoin-racemase**

L5 ANSWER 44 OF 47 GENBANK® COPYRIGHT 2005 on STN

TITLE (TI): Whole cell catalyst comprising a **hydantoinase**, a **racemase** and a carbamoylase

L5 ANSWER 45 OF 47 GENBANK® COPYRIGHT 2005 on STN

TITLE (TI): Whole cell catalyst comprising a **hydantoinase**, a **racemase** and a carbamoylase

L5 ANSWER 46 OF 47 GENBANK® COPYRIGHT 2005 on STN

TITLE (TI): Whole cell catalyst comprising a **hydantoinase**, a **racemase** and a carbamoylase

L5 ANSWER 47 OF 47 GENBANK® COPYRIGHT 2005 on STN

TITLE (TI): Cloning, nucleotide sequence and expression of a new L-N-carbamoylase gene from Arthrobacter **aureescens** DSM 3747 in E. coli

TITLE (TI): **Hydantoin racemase** from Arthrobacter **aureescens** DSM 3747: heterologous expression, purification and characterization

TITLE (TI): Direct Submission

TITLE (TI): Direct Submission

=> s 15 and 3747?

L6 22 L5 AND 3747?

=> d ti 16 1-22

L6 ANSWER 1 OF 22 GENBANK® COPYRIGHT 2005 on STN

TITLE (TI): Cloning, nucleotide sequence and expression of a new L-N-carbamoylase gene from Arthrobacter **aureescens** DSM 3747 in E. coli

TITLE (TI): **Hydantoin racemase** from Arthrobacter **aureescens** DSM 3747: heterologous expression, purification and characterization

TITLE (TI): Direct Submission

TITLE (TI): Direct Submission

L6 ANSWER 2 OF 22 DGENE COPYRIGHT 2005 The Thomson Corp on STN

TI Novel rec-**Hydantoin-racemase** from Arthrobacter **aureescens** DSM 3747 (hyuA) useful for producing enantiomerically enriched amino carboxylic acids or its derivatives on industrial scale -

L6 ANSWER 3 OF 22 DGENE COPYRIGHT 2005 The Thomson Corp on STN

TI Novel rec-**Hydantoin-racemase** from Arthrobacter **aureescens** DSM 3747 (hyuA) useful for producing

enantiomerically enriched amino carboxylic acids or its derivatives on industrial scale -

- L6 ANSWER 4 OF 22 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI Novel rec-**Hydantoin-racemase** from *Arthrobacter aureescens* DSM 3747 (hyuA) useful for producing enantiomerically enriched amino carboxylic acids or its derivatives on industrial scale -
- L6 ANSWER 5 OF 22 DGENE COPYRIGHT 2005 The Thomson Corp on STN
TI Novel rec-**Hydantoin-racemase** from *Arthrobacter aureescens* DSM 3747 (hyuA) useful for producing enantiomerically enriched amino carboxylic acids or its derivatives on industrial scale -
- L6 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Procedure for production of enantiomer-enriched tert-leucine using **hydantoin racemase** from *Arthrobacter aureescens*
- L6 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Organization of genes responsible for the stereospecific conversion of hydantoins to α -amino acids in *Arthrobacter aureescens* DSM 3747
- L6 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Whole cell catalyst comprising a **hydantoinase**, a **racemase** and a carbamoylase for the production of amino acids
- L6 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cloning of **hydantoin-racemase** from *Arthrobacter aureescens* and use of the recombinant enzyme for production of of amino carboxylic acids
- L6 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI **Hydantoin racemase** from *Arthrobacter aureescens* DSM 3747: heterologous expression, purification and characterization
- L6 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Enhanced stability of an L-hydantoinase mediated by its corresponding polyclonal antibody
- L6 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Detection and comparison of strains with selective L-hydantoin cleaving activity using polyclonal antibodies
- L6 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Characterization of serological properties of polyclonal antibodies produced against enzymes involved in the L-selective cleavage of hydantoin derivatives
- L6 ANSWER 14 OF 22 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
TI Development of a membrane bioreactor for the continuous bioconversion of slightly soluble 5-arylalkylmonosubstituted hydantoins to L-amino acids; reactor for 5-arylalkyl monosubstituted **hydantoin** conversion to L-amino acid using **hydantoin-racemase**, L-**hydantoinase** and N-carbamoyl-L-amino-acid-aminohydrolase (conference paper)
- L6 ANSWER 15 OF 22 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
TI Use of antibodies as screening tools for microorganisms with L-**hydantoinase**, **hydantoin-racemase** and N-carbamoylamino-acid-amidohydrolase activity; ELISA test for enzyme e.g. dihydropyrimidinase useful in L-amino acid production; *Arthrobacter aureescens* isolation (conference paper)
- L6 ANSWER 16 OF 22 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
TI Immobilization of hydantoin cleaving enzymes;

stereospecific L-amino acid and D-amino acid preparation from D,L-hydantoin using dihydropyrimidinase, L-N-carbamoylase, hydantoin-racemase or D-hydantoinase (conference paper)

L6 ANSWER 17 OF 22 USPATFULL on STN
TI Whole cell catalysts

L6 ANSWER 18 OF 22 USPATFULL on STN
TI Whole cell catalyst

L6 ANSWER 19 OF 22 USPATFULL on STN
TI Process for the production of enantiomer-enriched alpha-substituted carboxylic acids

L6 ANSWER 20 OF 22 USPATFULL on STN
TI Hydantoinase variants with improved properties and their use for the production of amino acids

L6 ANSWER 21 OF 22 USPATFULL on STN
TI 5-substituted **hydantoin racemase**, DNA coding for the **racemase**, and processes for producing optically active amino acids

L6 ANSWER 22 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Microbial and enzymatic synthesis of optically pure D- and L-3-trimethylsilyl-L-alanine by deracemization of D,L-5-trimethylsilylmethyl-hydantoin

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCUMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 13:30:17 ON 08 MAR 2005
SEA HYDANTO? (S) RACEMAS?

4 FILE AGRICOLA
4 FILE BIOBUSINESS
11 FILE BIOENG
18 FILE BIOSIS
42 FILE BIOTECHABS
42 FILE BIOTECHDS
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3 FILE CABA
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54 FILE CAPLUS
6 FILE CEABA-VTB
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83 FILE DGENE
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2 FILE EMBAL
15 FILE EMBASE
12 FILE ESBIODASE
0* FILE FEDRIP
1 FILE FROSTI
5 FILE FSTA
115 FILE GENBANK
14 FILE IFIPAT
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38 FILE USPATFULL
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22 FILE WPIDS
22 FILE WPINDEX
1 FILE NLDB

L1 QUE HYDANTO?(S) RACEMAS?

FILE 'GENBANK, DGENE, CAPLUS, BIOTECHDS, USPATFULL, SCISEARCH, WPIDS,
BIOSIS' ENTERED AT 13:31:52 ON 08 MAR 2005

L2 396 S HYDANTO?(S)RACEMAS?
L3 67 S L2 AND AURESCEN?
L4 47 DUP REM L3 (20 DUPLICATES REMOVED)
L5 47 FOCUS L4 1-
L6 22 S L5 AND 3747?

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
42.20	44.18

SESSION WILL BE HELD FOR 60 MINUTES

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Refine Search

Search Results -

Terms	Documents
L2 and 3747\$4	10

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L5

Search History

 DATE: Tuesday, March 08, 2005 [Printable Copy](#) [Create Case](#)

Set
Name
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Query

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Count
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DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR
L5 L2 and 3747\$410 L5L4 L3 and aurescen\$410 L4L3 L1 and (altenbuchner or mattes or pietzsch or syldatak or wiese or bommarius or tischer).in.22 L3L2 L1 and aurescen\$414 L2L1 hydanto\$4 same racemas\$463 L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 14 of 14 returned.☐ 1. Document ID: US 20040110262 A1**Using default format because multiple data bases are involved.**

L2: Entry 1 of 14

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110262

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110262 A1

TITLE: Recombinant L-N-carbamoylase from *Arthrobacter aurescens* and method of producing L-amino acids therewith

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Altenbuchner, Josef	Nufringen		DE	
Mattes, Ralf	Stuttgart		DE	
Pietzsch, Markus	Stuttgart		DE	
Syldatk, Christoph	Stuttgart		DE	
Wiese, Anja	Stuttgart		DE	
Wilms, Burkard	Stuttgart		DE	

US-CL-CURRENT: [435/196](#); [435/252.3](#), [435/320.1](#), [435/476](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 2. Document ID: US 20030175910 A1

L2: Entry 2 of 14

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175910

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175910 A1

TITLE: Whole cell catalyst

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Altenbuchner, Josef	Nufringen	GA	DE	

Bommarius, Andreas	Atlanta	US
Mattes, Ralf	Stuttgart	DE
Syldatk, Christoph	Stuttgart	DE
Tischer, Wilhelm	Peissenberg	DE
Wiese, Anja	Eching	DE
Wilms, Burkard	Stuttgart	DE

US-CL-CURRENT: 435/106; 435/228, 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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☐ 3. Document ID: US 20030166178 A1

L2: Entry 3 of 14

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166178
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030166178 A1

TITLE: Process for the production of enantiomer-enriched alpha-substituted carboxylic acids

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
May, Oliver	Frankfurt		DE	
Syldatk, Christoph	Stuttgart		DE	
Vielhauer, Oliver	Stuttgart		DE	
Werner, Markus	Weinsberg		DE	

US-CL-CURRENT: 435/136

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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☐ 4. Document ID: US 20030143244 A1

L2: Entry 4 of 14

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143244
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143244 A1

TITLE: Arthrobacter D-carbamoylase and methods of preparing enantiomerically enriched D-amino acids

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Drauz, Karlheinz	Freigericht	GA	DE
May, Oliver	Frankfurt		DE
Bommarius, Andreas	Atlanta		US
Syldatk, Christoph	Stuttgart		DE
Altenbuchner, Josef	Nufringen		DE
Werner, Markus	Weinsberg		DE
Siemann-Herzberg, Martin	Wildberg		DE

US-CL-CURRENT: [424/190.1](#); [435/196](#), [435/252.3](#), [435/320.1](#), [435/69.3](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw De
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☐ 5. Document ID: US 20030109013 A1

L2: Entry 5 of 14

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030109013

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030109013 A1

TITLE: DNA encoding hydantoinase, DNA encoding N-carbamyl-L-amino acid hydrolase, recombinant DNA, transformed cell, method of producing protein, and method of producing optically active amino acid

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Takenaka, Yasuhiro	Kanagawa		JP	
Suzuki, Shunichi	Kanagawa		JP	
Onishi, Norimasa	Kanagawa		JP	
Yokozeki, Kenzo	Kanagawa		JP	

US-CL-CURRENT: [435/106](#); [435/227](#), [435/252.33](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw De
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☐ 6. Document ID: US 20020102713 A1

L2: Entry 6 of 14

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102713 A1

TITLE: 5-substituted hydantoin racemase, DNA coding for the racemase, and processes for producing optically active amino acids

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Suzuki, Shunichi	Kanagawa		JP	
Onishi, Norimasa	Kanagawa		JP	
Yokozeiki, Kenzo	Kanagawa		JP	

US-CL-CURRENT: 435/233; 435/106, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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☐ 7. Document ID: US 6825014 B2

L2: Entry 7 of 14

File: USPT

Nov 30, 2004

US-PAT-NO: 6825014

DOCUMENT-IDENTIFIER: US 6825014 B2

TITLE: Process for the preparation of allysine acetal

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krimmer; Hans-Peter	Dietzenbach			DE
May; Oliver	Frankfurt			DE
Klement; Ingo	Pohlheim-Garbenteich			DE
Drauz; Karlheinz	Freigericht			DE
Reichert; Dietmar	Eschau			DE

US-CL-CURRENT: 435/106; 435/195, 514/477

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
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☐ 8. Document ID: US 6815195 B2

L2: Entry 8 of 14

File: USPT

Nov 9, 2004

US-PAT-NO: 6815195

DOCUMENT-IDENTIFIER: US 6815195 B2

TITLE: 5-substituted hydantoin racemase, DNA coding for the racemase, and processes for producing optically active amino acids

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Shunichi	Kanagawa			JP
Onishi; Norimasa	Kanagawa			JP

Yokozeiki; Kenzo

Kanagawa

JP

US-CL-CURRENT: 435/233; 435/252.33, 435/320.1, 435/6, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw De
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☐ 9. Document ID: US 6800464 B2

L2: Entry 9 of 14

File: USPT

Oct 5, 2004

US-PAT-NO: 6800464

DOCUMENT-IDENTIFIER: US 6800464 B2

TITLE: Arthrobacter D-carbamoylase and methods of preparing enantiomerically enriched D-amino acids

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Drauz; Karlheinz	Freigericht			DE
May; Oliver	Frankfurt			DE
Bommarius; Andreas	Atlanta	GA		
Syldatk; Christoph	Stuttgart			DE
Altenbuchner; Josef	Nufringen			DE
Werner; Markus	Weinsberg			DE
Siemann-Herzberg; Martin	Wildberg			DE

US-CL-CURRENT: 435/106; 435/183, 435/196, 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw De
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☐ 10. Document ID: US 6767725 B2

L2: Entry 10 of 14

File: USPT

Jul 27, 2004

US-PAT-NO: 6767725

DOCUMENT-IDENTIFIER: US 6767725 B2

TITLE: Acetyl amino acid racemase from amycolatopsis orientalis for racemizing carbamoyl amino acids

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bommarius; Andreas	Atlanta	GA		
Drauz; Karlheinz	Freigericht			DE
Verseck; Stefan	Hanau			DE

Kula; Maria-Regina

Niederzier

DE

US-CL-CURRENT: 435/106; 435/233, 435/280

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INAC	Draw De
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☐ 11. Document ID: US 6713288 B1

L2: Entry 11 of 14

File: USPT

Mar 30, 2004

US-PAT-NO: 6713288

DOCUMENT-IDENTIFIER: US 6713288 B1

TITLE: Whole cell catalysts

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Altenbuchner; Josef	Nufringen			DE
Bommarius; Andreas	Frankfurt			DE
Mattes; Ralf	Stuttgart			DE
Syldatk; Christoph	Stuttgart			DE
Tischer; Wilhelm	Peissenberg			DE
Wiese; Anja	Eching			DE
Wilms; Burkard	Stuttgart			DE

US-CL-CURRENT: 435/106; 435/183, 435/252.3, 435/252.33, 435/320.1, 435/325,
435/471, 435/476, 435/488, 435/489

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INAC	Draw De
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☐ 12. Document ID: US 6524837 B1

L2: Entry 12 of 14

File: USPT

Feb 25, 2003

US-PAT-NO: 6524837

DOCUMENT-IDENTIFIER: US 6524837 B1

TITLE: Hydantoinase variants with improved properties and their use for the
production of amino acids

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; Frances H.	Pasadena	CA		
May; Oliver	Stuttgart			DE
Drauz; Karlheinz	Freigericht			DE

Bommarius; Andreas

Frankfurt/M

DE

US-CL-CURRENT: 435/231

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 13. Document ID: US 6352848 B1

L2: Entry 13 of 14

File: USPT

Mar 5, 2002

US-PAT-NO: 6352848

DOCUMENT-IDENTIFIER: US 6352848 B1

TITLE: Recombinant L-N-carbamoylase from *Arthrobacter aurescens* and method of producing L-amino acids therewith

DATE-ISSUED: March 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Altenbuchner; Josef	Nufringen			DE
Mattes; Ralf	Stuttgart			DE
Pietzsch; Markus	Stuttgart			DE
Syldatk; Christoph	Stuttgart			DE
Wiese; Anja	Stuttgart			DE
Wilms; Burkard	Stuttgart			DE

US-CL-CURRENT: 435/195; 435/183, 435/212, 435/227, 435/228, 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 14. Document ID: DE 20023437 U1, WO 200123535 A2, AU 200075134 A, EP 1220898 A2

L2: Entry 14 of 14

File: DWPI

Sep 2, 2004

DERWENT-ACC-NO: 2001-281681

DERWENT-WEEK: 200457

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TITLE: Novel *rec-Hydantoin-racemase* from *Arthrobacter aurescens* DSM 3747 (hyuA) useful for producing enantiomerically enriched amino carboxylic acids or its derivatives on industrial scale

INVENTOR: ALTENBUCHNER, J; BOMMARIUS, A ; MATTES, R ; PIETZSCH, M ; SYLDATK, C ; TISCHER, W ; WIESE, A

PRIORITY-DATA: 1999EP-0118956 (September 27, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 20023437 U1</u>	September 2, 2004		000	C12N009/90
<u>WO 200123535 A2</u>	April 5, 2001	E	021	C12N009/90
<u>AU 200075134 A</u>	April 30, 2001		000	C12N009/90
<u>EP 1220898 A2</u>	July 10, 2002	E	000	C12N009/90

INT-CL (IPC): C12 N 9/90; C12 N 15/61; C12 P 41/00; C12 P 41/00; C12 R 1:19

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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